

Amendment to the Claims:

Please amend claims 1-16 as follows:

1. (Currently Amended) A heat exchanger, comprising:

- modules defining a first path for a first fluid, each of said modules comprising two metal sheets forming between them a network of channels which are located in parallel with each other from the a fluidic point of view, each channel interposed between two neighbouring channels of the network being, over the whole of its developed length of said modules, each adjacent channel of said network of channels being to these two neighbouring channels from which it is isolated by two respective weld lines connecting the said two metal sheets;

- a second path for a second fluid is defined between ~~the said~~ modules; wherein and an overall variation in a passage cross-section varies over the a length of at least one of the said first and second paths with continuity of profiles of the said channels.

2. (Currently Amended) A heat exchanger according to claim 1, ~~characterised in that the~~ wherein a pitch between the neighbouringsaid respective weld lines varies progressively over at least part of the a length of the said channels of one of said module-modules.

3. (Currently Amended) A heat exchanger according to claim 1, ~~characterised in that the~~wherein an inflation of the metal sheets of a one of said ~~modules~~module varies progressively over at least part of ~~the~~a length of the said channels.

4. (Currently Amended) A heat exchanger according to claim 1, ~~characterised in that the~~wherein a pitch between ~~neighbouring~~said respective weld lines varies from one channel to another of said channels ~~the other~~ of a module.

5. (Currently Amended) A heat exchanger according to claim 1, ~~characterised in that the~~wherein an inflation of the metal sheets of a one of said ~~modules~~module varies from one of said channels ~~channel~~ to another of said channels.

6. (Currently Amended) A heat exchanger according to claim 1, ~~characterised in that the~~wherein an arrangement of ~~the~~said modules in relation to each other produces an overall variation in ~~the~~a passage cross-section over ~~the~~a length of ~~the~~said second path.

7. (Currently Amended) A heat exchanger according to claim 1, ~~characterised in that~~wherein an the overall variation in ~~the~~a cross-section of one of ~~the~~said first and second paths is ~~in the same direction as~~corresponds to a variation in ~~the~~a flow rate of gas in ~~this path~~said one of said first and second paths intended for a phase change process.

8. (Currently Amended) A heat exchanger according to claim 1, ~~characterised in that the~~wherein said modules are in parallel planes.

9. (Currently Amended) A heat exchanger according to claim 1, ~~characterised in that the~~wherein said modules are in convergent planes.

10. (Currently Amended) A heat exchanger according to claim 1, ~~characterised in that the~~wherein said modules have longitudinal edges forming an angle ~~with each other~~, each of said edges being almost parallel to a respective outside weld line.

11. (Currently Amended) A heat exchange module,
comprising:

two metal sheets which between them form a network of channels located in parallel to each other from a fluidic point of view, ~~each channel interposed between two neighbouring channels of the network being adjacent over its~~ the whole developed length to these two neighbouring of said channels, each of said channels being from which it is isolated by two respective weld lines joining the said two metal sheets, and wherein an overall variation in thea passage cross-section is defined by ~~the said channels with continuity of profile of the said channels.~~

12. (Currently Amended) A heat exchange module according to claim 11, ~~characterised in that the~~ wherein a pitch between neighbouring said respective weld lines varies progressively over at least part of thea length of ~~the said channels.~~

13. (Currently Amended) A heat exchange module according to claim 11, ~~characterised in that the~~ wherein an inflation of the said metal sheets varies progressively over at least part of thea length of ~~the said channels.~~

14. (Currently Amended) A heat exchange module according to claim 11, ~~characterised in that the~~ wherein a pitch between the neighbouring said respective weld lines varies from one channel the other to another of said channels.

15. (Currently Amended) A heat exchange module according to claim 11, ~~characterised in that the~~ wherein an inflation- of the metal sheets varies from one channel to the other another of said channels.

16. (Currently Amended) A heat exchange module according to claim 11, further comprising ~~characterised in that it comprises~~ longitudinal edges ~~each~~ forming an angle with the ~~each~~ other, each of said edges being ~~almost~~ substantially parallel to ~~a respective outside line of weld~~ at least one of said respective weld lines.